

# ● PRINTER RUSH ●

(PTO ASSISTANCE)

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[RUSH] MESSAGE: SINCE THIS PATENT HAS  
COLOR DRAWINGS, THE PARAGRAPH IS  
REQUIRED BEFORE THE BRIEF  
DESCRIPTION.

THANK YOU

[XRUSH] RESPONSE: corrected

See attachments

INITIALS: RP

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.  
 REV 10/04

## BRIEF DESCRIPTION OF THE DRAWINGS

Preferred embodiments of the invention are described in relation to the drawings in which:

**Figure 1.** (a) Shows the nucleic acid molecule that is SEQ ID NO:1 and the polypeptide that is SEQ ID NO:2.

In a preferred embodiment, the figure shows isolated *AtNHX1* cDNA encoding a  $\text{Na}^+/\text{H}^+$  exchanger from *Arabidopsis thaliana* showing cDNA sequence and the corresponding amino acid sequence for *AtNHX1*. Twelve transmembrane domains are present, a conserved amiloride-binding domain is present, and a relatively hydrophilic C-terminal region is also present. The predicted open reading frame begins at nucleotide 286. The amino acids are centred below the corresponding codon and are numbered on the left;

(b) Shows the nucleic acid molecule that is SEQ ID NO:3 and the polypeptide that is SEQ ID NO:4.

In a preferred embodiment, the figure shows isolated *AtNHX2* cDNA encoding a  $\text{Na}^+/\text{H}^+$  exchanger from *Arabidopsis thaliana* showing cDNA sequence and the corresponding predicted amino acid sequence for *AtNHX2*. The predicted open reading frame begins at nucleotide 61. The amino acids are centred below the corresponding codon and are numbered on the left;

(c) (i) Shows the nucleic acid molecule that is SEQ ID NO:5 and the polypeptide that is SEQ ID NO:6. (ii) Shows the nucleic acid molecule that is SEQ ID NO:7 and the polypeptide that is SEQ ID NO:8.

In a preferred embodiment, the figure shows *AtNHX3* partial cDNA sequences. The amino acids are centred below the corresponding codon and are numbered on the left (i) 5' sequence of the partial *AtNHX3* cDNA and amino acid sequence; (ii) In a preferred embodiment, the figure shows 3' sequence of the partial *AtNHX3* cDNA and amino sequence;

(d) Shows the nucleic acid molecule that is SEQ ID NO:17 and the polypeptide that is SEQ ID NO:18.

In a preferred embodiment, the figure shows isolated *AtNHX3* cDNA encoding a  $\text{Na}^+/\text{H}^+$  exchanger from *Arabidopsis thaliana* showing cDNA sequence and the

The patent or application <sup>16</sup> file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.